



Australian Laboratory Services Pty. Ltd.

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Account: MACHAR

CERTIFICATE BR10099906

Project: Thomas Ck

P.O. No.:

This report is for 30 Drill Core samples submitted to our lab in Brisbane, QLD, Australia on 29-JUL-2010.

The following have access to data associated with this certificate:

RICHARD LINDSAY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL42	Trace Level Au - 15 g AR	ICP-MS
ME-MS41	51 anal. aqua regia ICPMS	

To: MACQUARIE HARBOUR MINING LTD
ATTN: RICHARD LINDSAY
PO BOX 21
KINGSTON BEACH TAS 7050

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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CERTIFICATE OF ANALYSIS BR10099906

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-TL42 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
2001		0.87	0.057	0.46	1.90	18.8	<0.2	10	50	0.53	0.94	0.27	0.05	15.55	137.0	42
2002		0.49	0.068	0.43	2.70	5.2	<0.2	20	140	0.49	0.29	0.18	0.06	80.2	74.2	62
2003		1.11	0.021	0.22	2.13	4.0	<0.2	<10	30	0.84	0.22	0.33	0.02	32.8	33.1	62
2004		2.39	0.078	0.30	1.57	5.2	<0.2	<10	10	0.63	0.31	0.25	0.02	76.0	52.3	60
2005		0.87	0.023	0.20	2.07	4.1	<0.2	<10	30	0.88	0.23	0.38	0.04	78.3	33.7	58
2006		2.51	0.037	0.28	2.23	5.4	<0.2	<10	20	0.98	0.43	0.59	0.02	43.8	78.9	91
2007		2.06	0.006	0.10	2.45	5.7	<0.2	<10	30	1.03	0.51	0.57	0.02	58.9	82.4	77
2008		1.58	0.004	0.07	2.41	5.4	<0.2	<10	30	0.98	0.85	0.51	0.01	70.4	53.2	81
2009		8.24	0.017	0.05	1.30	4.1	<0.2	<10	50	0.63	0.12	0.13	0.01	60.8	21.4	30
2010		1.17	0.004	0.06	2.62	4.6	<0.2	<10	30	1.04	0.18	0.42	<0.01	46.7	59.2	58
2011		2.07	0.005	0.12	2.52	6.1	<0.2	<10	20	1.13	0.42	0.57	0.01	46.1	67.4	102
2012		2.27	0.007	0.12	2.60	6.4	<0.2	<10	30	0.99	0.50	0.60	0.01	32.2	69.0	83
2013		2.04	0.021	0.22	2.18	7.9	<0.2	<10	20	0.92	0.60	0.58	0.02	46.0	125.5	70
2014		2.40	0.011	0.14	2.39	6.2	<0.2	<10	20	0.90	0.28	0.52	0.30	68.5	100.5	95
2015		2.32	0.029	0.07	2.07	4.7	<0.2	<10	20	0.93	0.18	0.50	0.02	94.6	74.6	107
2016		1.07	0.003	0.04	2.01	4.5	<0.2	<10	20	0.96	0.20	0.56	0.01	64.2	49.2	90
2017		0.56	0.031	0.19	2.32	7.2	<0.2	<10	60	1.03	0.44	0.50	0.02	129.5	120.0	53
2018		0.85	0.022	0.09	2.07	5.3	<0.2	<10	50	0.71	0.12	0.54	<0.01	37.9	13.8	107
2019		0.59	0.042	0.29	1.97	6.8	<0.2	<10	50	1.10	0.22	0.70	0.03	158.5	58.3	37
2020		0.95	0.016	0.08	2.32	6.0	<0.2	<10	30	0.67	0.11	0.69	0.02	31.6	34.3	180
2021		0.39	0.011	0.15	2.77	6.8	<0.2	10	70	0.88	0.11	0.75	0.02	53.0	59.3	114
2022		2.20	0.004	0.11	2.36	5.4	<0.2	<10	30	0.77	0.12	0.85	<0.01	31.5	33.0	101
2023		1.51	0.006	0.09	2.56	5.8	<0.2	<10	20	0.84	0.20	0.92	0.01	32.1	34.7	148
2024		1.91	0.003	0.09	2.57	6.5	<0.2	<10	30	0.79	0.28	0.89	0.01	38.0	44.0	126
2025		2.50	0.022	0.39	1.76	16.2	<0.2	<10	40	0.76	1.21	0.79	0.03	39.9	149.5	36
2026		2.99	0.006	0.15	1.86	10.4	<0.2	<10	20	0.77	0.71	0.86	0.02	55.9	125.0	52
2027		2.42	0.003	0.06	2.05	5.8	<0.2	<10	40	0.61	0.21	1.10	0.01	13.10	37.5	108
2028		1.99	0.005	0.08	2.22	5.7	<0.2	<10	20	0.80	0.33	0.84	0.01	41.1	44.9	69
2029		3.35	0.003	0.04	2.30	4.6	<0.2	<10	30	0.87	0.12	0.94	<0.01	43.7	28.2	94
2030		3.18	0.003	0.06	2.18	7.4	<0.2	<10	20	0.81	0.36	0.94	<0.01	39.7	61.1	88



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
2001		0.72	1845	5.31	7.54	0.14	0.36	0.17	0.043	0.32	8.1	7.0	0.45	222	1.85
2002		0.39	2150	4.36	12.15	0.22	0.44	0.17	0.077	0.45	42.9	40.2	1.90	579	2.42
2003		0.60	1135	2.87	11.55	0.17	0.32	0.10	0.049	0.20	17.1	22.1	1.37	476	1.71
2004		0.43	1770	3.42	8.38	0.18	0.21	0.10	0.042	0.12	41.6	18.7	1.25	367	3.77
2005		0.57	1700	2.69	9.99	0.21	0.34	0.05	0.054	0.21	43.0	15.9	1.06	297	4.42
2006		0.51	1320	5.49	11.30	0.24	0.26	0.06	0.040	0.12	23.4	25.6	1.93	449	7.09
2007		0.57	110.0	5.71	11.80	0.26	0.30	0.04	0.020	0.19	31.9	26.5	1.91	452	6.95
2008		0.65	58.8	5.25	10.85	0.23	0.24	0.07	0.018	0.18	38.7	27.8	1.81	440	1.62
2009		0.35	205	3.19	9.51	0.16	1.04	0.05	0.019	0.27	31.8	13.4	0.99	380	1.74
2010		0.54	47.0	4.32	12.25	0.22	0.42	0.03	0.021	0.23	24.0	26.0	1.83	377	4.07
2011		0.85	77.5	6.70	11.45	0.20	0.29	0.05	0.016	0.17	24.6	26.6	2.05	456	2.45
2012		0.91	91.1	5.80	11.45	0.20	0.33	0.08	0.018	0.21	17.1	25.3	1.85	496	3.43
2013		0.91	477	5.79	10.40	0.20	0.27	0.10	0.021	0.15	24.9	25.9	1.91	466	2.51
2014		0.57	233	5.61	12.90	0.23	0.26	0.11	0.021	0.10	36.4	32.5	2.40	458	4.21
2015		0.42	187.0	5.10	12.15	0.26	0.20	0.04	0.018	0.06	52.2	25.6	2.16	376	10.55
2016		0.62	33.5	5.00	11.85	0.24	0.25	0.05	0.015	0.08	34.3	21.6	1.82	353	4.49
2017		1.67	829	9.50	12.80	0.32	0.33	0.08	0.036	0.17	72.0	22.6	1.93	579	4.90
2018		0.59	638	5.08	11.85	0.22	1.18	0.02	0.052	0.19	18.2	32.8	1.99	443	0.96
2019		0.63	935	6.79	11.50	0.37	0.40	0.06	0.032	0.12	86.3	19.6	1.44	379	7.80
2020		0.71	414	5.29	10.50	0.21	0.94	0.06	0.051	0.17	15.0	34.6	2.43	333	2.46
2021		0.99	251	5.45	13.55	0.28	0.31	0.09	0.041	0.28	29.1	35.2	2.36	568	9.24
2022		1.00	285	5.22	10.70	0.21	0.12	0.02	0.038	0.11	17.1	32.3	2.08	476	2.09
2023		0.77	115.0	5.52	12.50	0.26	0.18	0.02	0.036	0.10	17.4	36.4	2.35	495	2.72
2024		1.00	51.2	5.80	11.55	0.22	0.14	0.03	0.019	0.12	20.7	31.0	2.33	494	2.56
2025		0.55	402	5.25	9.45	0.24	0.24	0.10	0.023	0.14	21.8	16.0	1.22	347	3.64
2026		0.34	62.2	5.81	11.00	0.30	0.19	0.08	0.017	0.06	31.2	18.0	1.50	366	6.72
2027		0.50	35.3	6.51	10.30	0.26	0.19	0.02	0.019	0.10	6.2	19.3	1.48	419	3.87
2028		0.43	62.6	6.10	12.30	0.31	0.19	0.05	0.021	0.09	22.0	25.2	1.96	442	5.52
2029		0.73	78.2	5.46	12.00	0.32	0.18	0.02	0.022	0.11	23.2	25.1	1.94	460	3.46
2030		0.76	33.0	6.43	12.00	0.28	0.16	0.03	0.017	0.09	21.3	23.8	1.96	380	2.30



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
2001		0.33	312	220	3.8	36.1	0.009	4.52	0.55	5.3	2.6	1.4	12.1	<0.01	0.33
2002		0.49	104.0	270	2.4	21.9	0.004	0.66	0.48	13.6	1.1	3.3	15.1	0.01	0.06
2003		0.29	82.1	170	1.5	22.8	0.001	0.32	0.40	8.4	0.6	2.2	10.2	0.01	0.04
2004		0.18	71.6	220	3.2	11.7	0.004	0.53	0.46	7.3	0.8	1.2	5.5	<0.01	0.05
2005		0.28	44.4	200	1.6	20.3	0.006	0.33	0.73	8.6	0.8	3.1	19.4	0.01	0.02
2006		0.18	93.7	300	1.9	11.6	0.013	0.87	0.37	12.5	0.9	1.4	6.0	<0.01	0.08
2007		0.23	102.5	350	1.4	18.6	0.017	1.03	0.36	12.8	0.9	1.3	7.5	0.01	0.08
2008		0.13	65.0	360	2.8	18.0	0.003	1.20	0.34	11.1	1.1	1.2	7.7	<0.01	0.11
2009		0.29	25.0	410	1.0	14.5	0.001	0.08	0.39	5.1	0.6	1.2	8.2	0.01	0.01
2010		0.25	101.5	340	2.1	24.8	0.005	0.81	0.35	11.9	0.9	1.5	8.0	0.01	0.05
2011		0.16	123.0	440	4.2	17.2	0.003	1.19	0.29	14.9	1.0	1.0	7.0	<0.01	0.10
2012		0.17	135.0	430	2.3	23.2	0.004	1.18	0.26	14.7	0.9	1.2	9.2	<0.01	0.13
2013		0.16	168.0	370	2.3	15.7	0.005	1.96	0.26	11.6	1.4	1.1	5.9	<0.01	0.18
2014		0.13	121.0	510	3.5	9.8	0.003	0.99	0.33	13.3	1.0	1.5	5.7	<0.01	0.09
2015		0.13	70.4	320	1.9	5.8	0.003	0.45	0.36	10.8	0.6	1.5	6.0	<0.01	0.04
2016		0.17	76.4	260	1.4	7.4	0.004	0.42	0.36	11.3	0.6	1.9	7.9	<0.01	0.05
2017		0.28	86.0	330	4.1	17.6	0.004	0.92	1.17	12.9	1.1	3.1	15.9	0.01	0.10
2018		0.38	31.8	460	1.0	16.0	0.001	0.09	0.43	9.0	0.6	1.8	7.7	0.01	0.01
2019		0.36	52.1	510	2.8	8.6	0.008	0.62	0.70	10.5	1.1	4.0	20.0	0.01	0.06
2020		0.24	52.0	510	1.9	17.8	0.001	0.13	0.44	7.5	0.6	0.9	12.0	0.01	0.02
2021		0.36	53.0	240	2.0	28.6	0.004	0.40	0.64	13.1	0.6	3.4	47.3	0.01	0.04
2022		0.16	35.3	350	2.4	13.1	0.001	0.24	0.32	9.1	0.5	1.6	14.0	<0.01	0.03
2023		0.23	70.2	420	1.8	10.8	0.002	0.50	0.34	13.0	0.7	1.6	8.3	<0.01	0.05
2024		0.18	77.3	490	6.5	13.5	0.002	0.87	0.34	13.4	0.7	1.2	8.0	<0.01	0.08
2025		0.31	123.5	430	7.4	13.0	0.005	2.94	0.37	11.6	2.4	1.2	10.2	<0.01	0.33
2026		0.23	103.0	490	2.8	7.0	0.006	1.83	0.34	10.3	1.5	1.7	8.6	<0.01	0.21
2027		0.27	27.0	470	6.0	13.0	0.002	0.40	0.30	9.9	0.6	1.6	12.1	<0.01	0.05
2028		0.22	48.3	350	1.8	8.6	0.002	0.54	0.30	13.3	0.8	1.9	8.1	<0.01	0.09
2029		0.28	46.8	310	1.9	11.8	0.001	0.19	0.30	13.9	0.6	2.1	11.7	<0.01	0.03
2030		0.26	95.9	570	1.8	9.4	0.003	0.82	0.28	13.6	0.9	1.8	7.4	<0.01	0.11



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		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
2001		0.092	0.09	2.30	46	0.77	5.76	96	14.2	
2002		0.123	0.10	11.05	70	0.81	16.45	73	17.2	
2003		0.082	0.04	6.70	61	0.27	9.38	65	13.3	
2004		0.048	0.02	29.1	61	0.11	9.12	49	8.5	
2005		0.096	0.05	6.16	68	0.15	11.90	57	13.9	
2006		0.060	0.02	7.82	102	0.14	9.27	59	10.1	
2007		0.064	0.03	5.52	123	0.14	10.90	63	12.2	
2008		0.036	0.04	1.91	99	0.08	14.45	57	9.3	
2009		0.039	0.05	6.92	52	0.29	16.65	39	37.3	
2010		0.082	0.05	4.05	68	0.09	13.35	39	17.5	
2011		0.060	0.03	2.67	120	0.08	11.05	49	11.7	
2012		0.076	0.03	2.94	131	0.08	8.09	47	12.9	
2013		0.068	0.02	5.09	57	0.11	7.30	43	10.0	
2014		0.058	0.02	9.66	76	0.07	10.90	63	10.5	
2015		0.059	<0.02	11.20	73	0.07	10.55	42	7.3	
2016		0.079	<0.02	7.89	72	0.07	9.60	51	9.3	
2017		0.080	0.03	6.48	108	1.01	17.35	65	11.7	95.0
2018		0.116	0.03	3.52	95	0.24	12.60	51	47.7	
2019		0.116	0.02	5.63	92	2.04	22.1	83	15.4	
2020		0.141	0.03	2.33	105	0.14	12.80	50	39.7	
2021		0.102	0.05	4.67	108	0.32	12.60	84	11.9	
2022		0.081	0.02	1.67	123	0.15	10.90	50	4.2	
2023		0.098	0.02	2.17	109	0.17	10.35	53	5.8	
2024		0.078	0.02	1.70	100	0.13	7.98	70	5.1	
2025		0.100	0.02	2.32	50	0.32	7.92	48	8.8	
2026		0.101	<0.02	2.62	105	0.29	9.89	55	6.7	
2027		0.094	0.02	1.87	141	0.17	9.28	34	6.2	
2028		0.115	<0.02	3.04	114	0.13	11.35	57	6.4	
2029		0.145	0.02	2.08	116	0.20	10.65	48	6.1	
2030		0.145	<0.02	2.22	111	0.24	9.86	44	4.9	



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Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).